

ABSTRACT OF THE DISCLOSURE

**METHODS FOR IDENTIFYING INHIBITORS OF GADD45
POLYPEPTIDE ACTIVITY, AND INHIBITORS OF SUCH ACTIVITY**

The present invention is directed to novel methods for assaying for
5 modulators of GADD45 polypeptide activity. The invention also provides means to
sensitize a proliferating cell to a DNA base-damaging agent by administration of novel
inhibitors of GADD45 polypeptide activity. The invention further provides polypeptides
which interfere with the ability of Cdc2/cyclin B1 complexes to cause a pause at the
G2/M stage of the cell cycle in response to GADD45, and nucleic acids which encode
10 such polypeptides.